ABSTRACT

A problem to be solved by the invention is to provide a method of detecting protrudent matters adhered to surfaces of metallic materials when connecting them, and a method of making spark plugs using the same, enabling to detect at high precision occurrence of the protrudent adhered matters caused by connecting metallic materials, and in turn offer products of high quality, and effectively accomplish increase of yield. The invention sets an allowable range and a non-allowable range around an outside outline (an outline of the work to be detected) of the connected work member on the basis of a shape of an outline of a reference work member (a reference outline) becoming a reference of the connected work member in order to judge presence or absence of the outline of the work to be detected in the non-allowable range, said allowable range allowing the existence of the outline of the work to be detected, and said non-allowable range not allowing the existence of the outline of the reference work. Specifically, the detecting line to be a boundary between the allowable range and the non-allowable range is previously registered as a shape along the reference outline, and on the basis of the positional relation between the detecting line and the reference outline, the detecting line corresponding to the outline of the work to be detected is created. The detecting line and the outline of the work to be detected are made correspondent in the same image, and

on this image, it is judged whether the outline of the work to be detected exists on the detecting line.